EP 0 745 958 A2

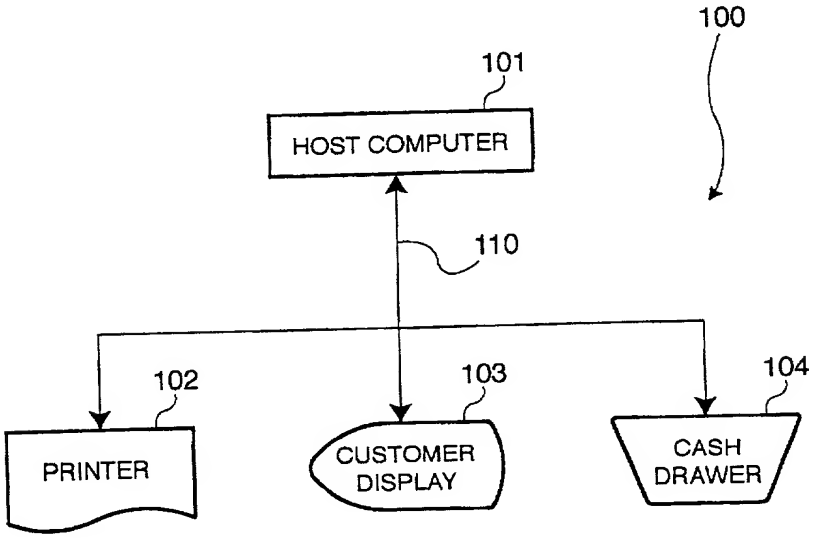

FIG. 1

US 6,456,998 B1

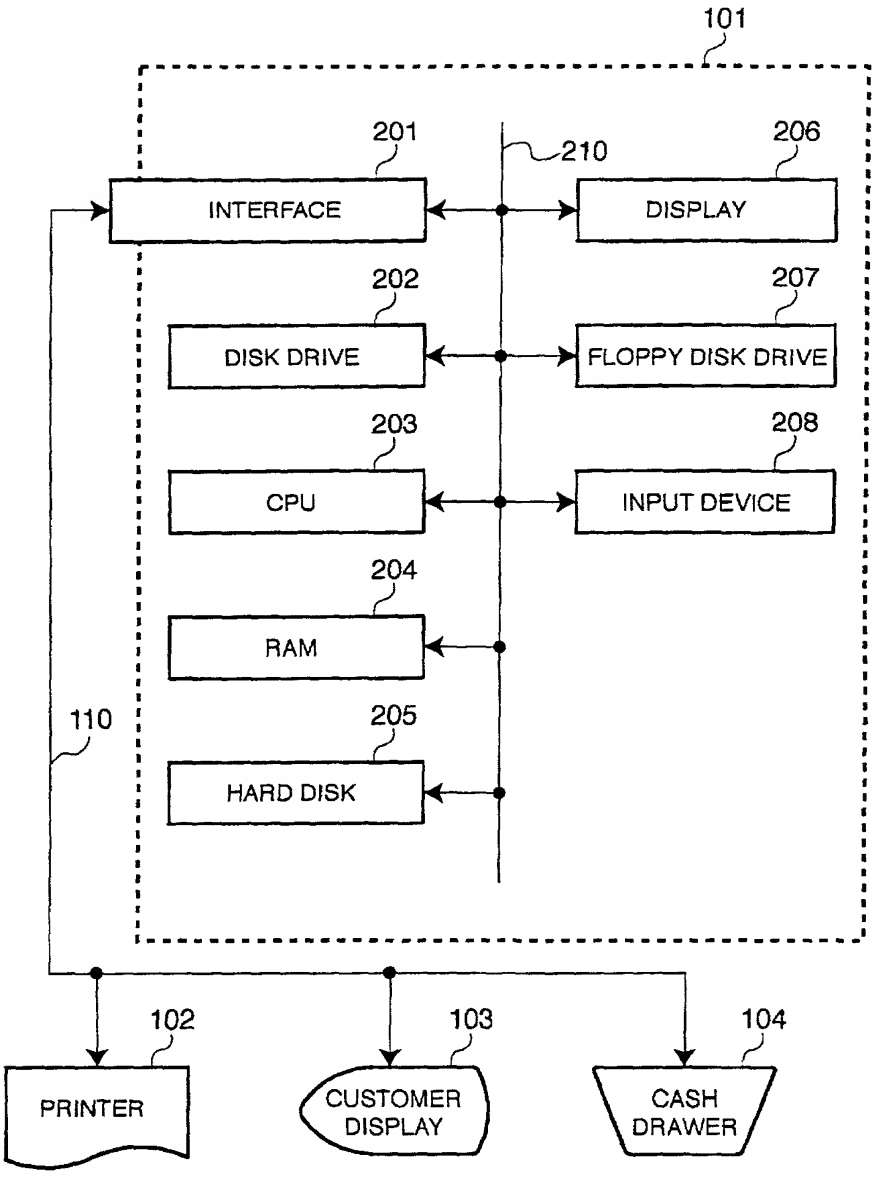

FIG. 2

EP 0 954 798 B1

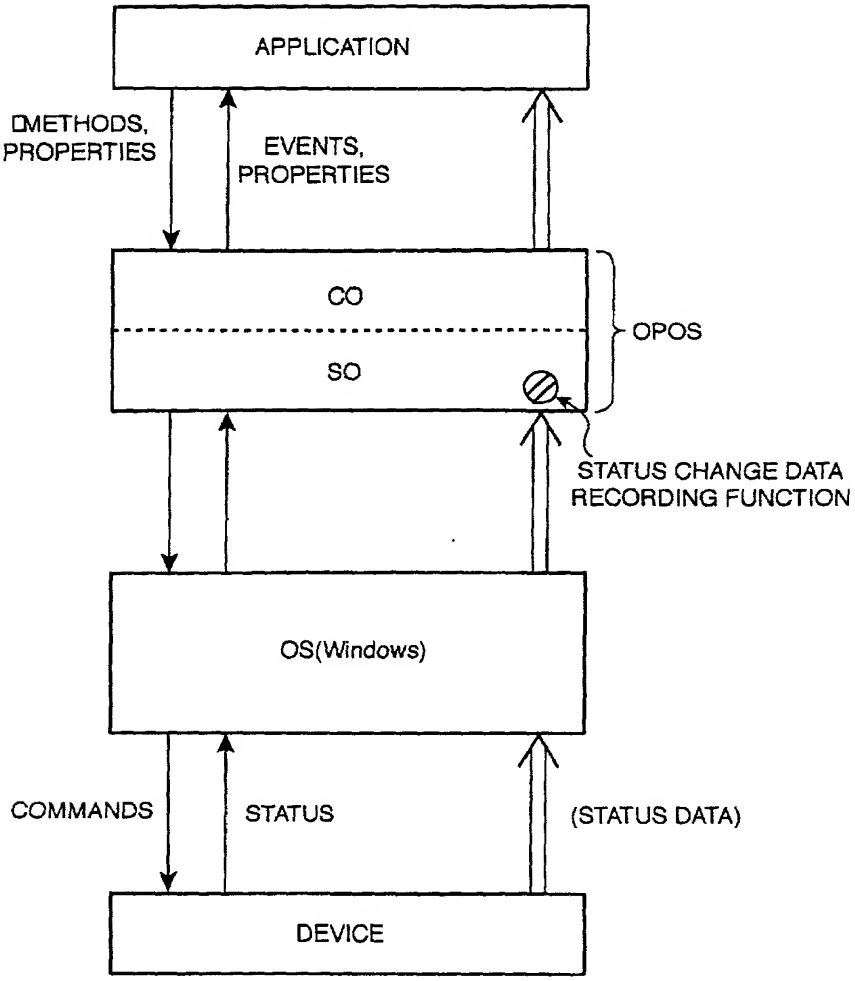

FIG. 3

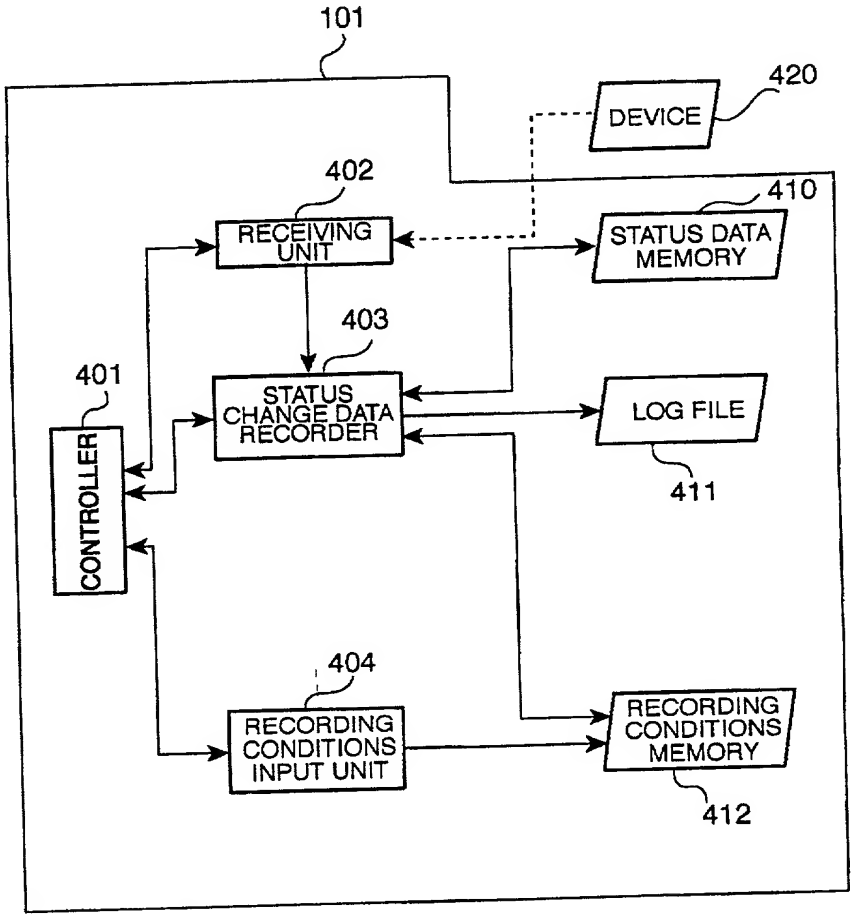
101
420
DEVICE
402
410
RECEIVING UNIT
STATUS DATA MEMORY
403
401
STATUS CHANGE DATA RECORDER
LOG FILE
CONTROLLER
411
404
RECORDING CONDITIONS INPUT UNIT
RECORDING CONDITIONS MEMORY
412

FIG. 4

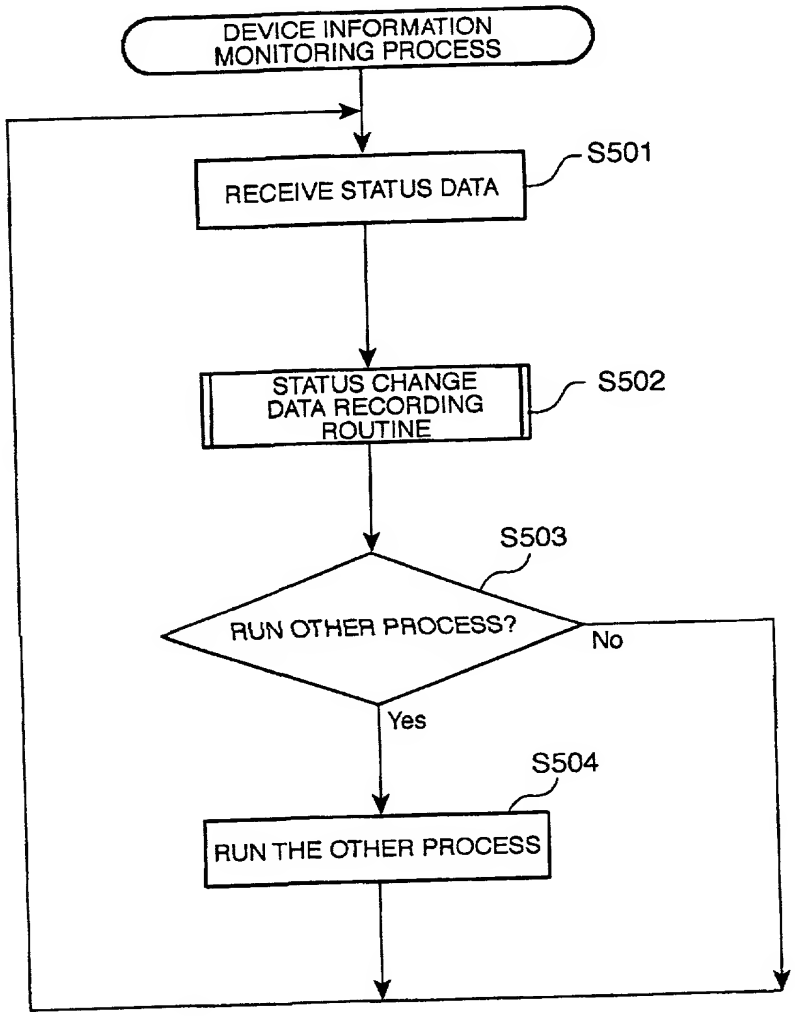
DEVICE INFORMATION MONITORING PROCESS
RECEIVE STATUS DATA
S501
STATUS CHANGE DATA RECORDING ROUTINE
S502
S503
RUN OTHER PROCESS?
No
Yes
S504
RUN THE OTHER PROCESS

FIG. 5

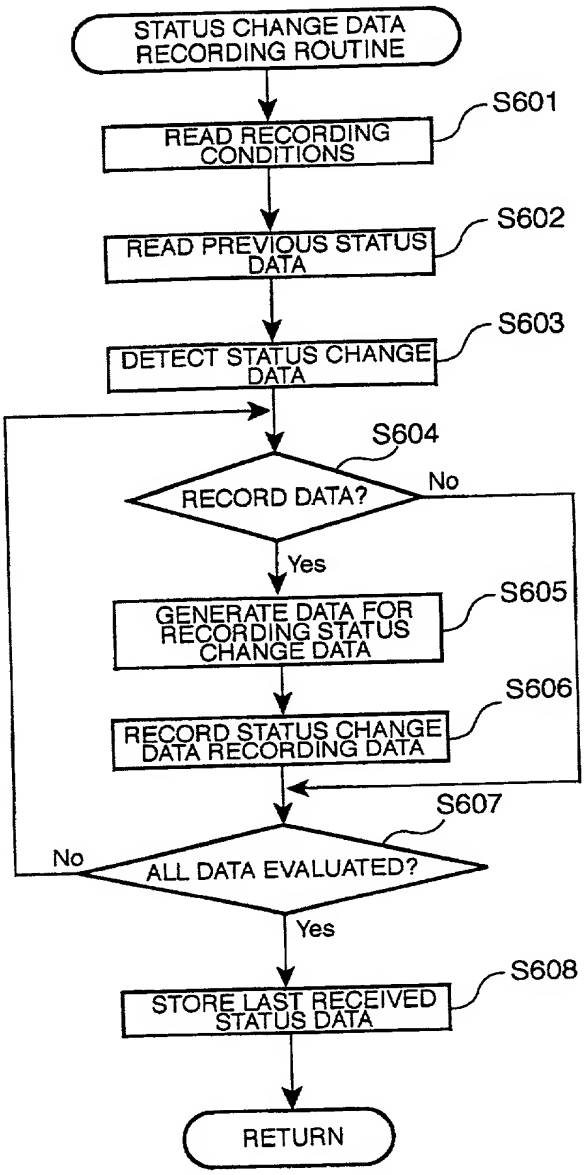
STATUS CHANGE DATA RECORDING ROUTINE
READ RECORDING CONDITIONS
S601
READ PREVIOUS STATUS DATA
S602
DETECT STATUS CHANGE DATA
S603
S604
RECORD DATA?
No
Yes
GENERATE DATA FOR RECORDING STATUS CHANGE DATA
S605
RECORD STATUS CHANGE DATA RECORDING DATA
S606
S607
No
ALL DATA EVALUATED?
Yes
STORE LAST RECEIVED STATUS DATA
S608
RETURN

FIG. 6

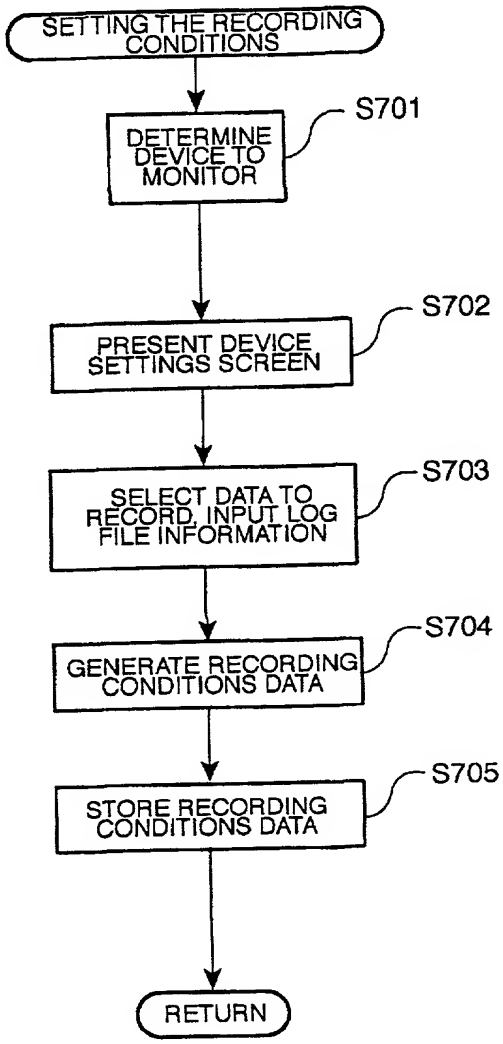
SETTING THE RECORDING CONDITIONS
DETERMINE DEVICE TO MONITOR
S701
PRESENT DEVICE SETTINGS SCREEN
S702
SELECT DATA TO RECORD, INPUT LOG FILE INFORMATION
S703
GENERATE RECORDING CONDITIONS DATA
S704
STORE RECORDING CONDITIONS DATA
S705
RETURN

FIG. 7

posprinter.log
FILE (F) EDIT (E) SEARCH (S) HELP (H)

```
11/14/2000 18:40:19  Drawer status HIGH
11/14/2000 18:40:23  Cover opened
11/14/2000 18:40:23  Device Offline
11/14/2000 18:40:25  Cover closed
11/14/2000 18:40:25  Device Online
11/14/2000 18:40:26  Cover opened
11/14/2000 18:40:26  Device Offline
11/14/2000 18:40:31  Feed button pressed
11/14/2000 18:40:33  No paper[Receipt]
11/14/2000 18:40:33  Feed button released
11/14/2000 18:40:36  Cover closed
11/14/2000 18:40:37  Cover opened
11/14/2000 18:40:48  Feed button pressed
11/14/2000 18:40:49  Feed button released
11/14/2000 18:40:52  Paper inserted[Receipt]
11/14/2000 18:41:18  Cover closed
11/14/2000 18:41:18  Device Online
```

FIG. 8

DEVICE SETTINGS

General | Paper | Bitmap | Color Bitmap | Status Log

DATA TO LOG

☑ ERROR ☑ OFF LINE

LOG FILE NAME (FULL PATH)

C:¥PROGRA~1¥OPOS¥xxxxx¥POSPrinter.log

MAXIMUM FILE SIZE[KB]

100

OK CANCEL APPLY (A)

FIG. 9

20TTO' 8.6Shoot

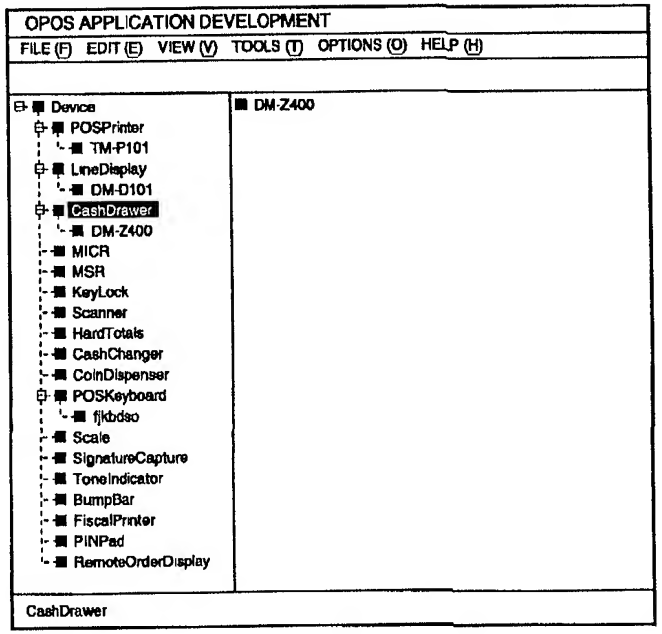

FIG. 10A

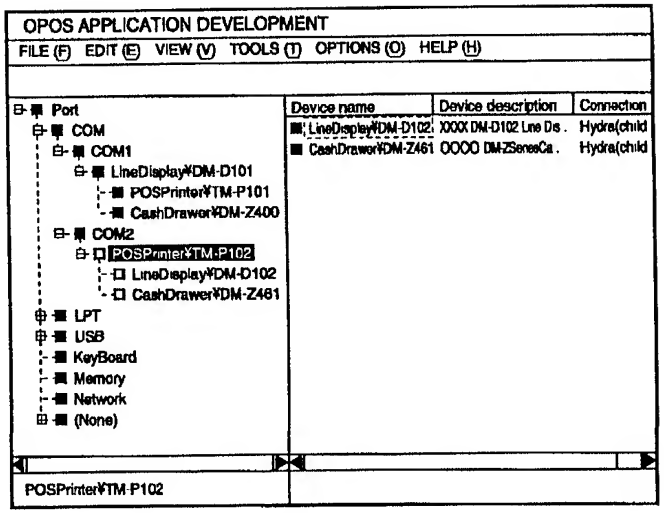

FIG. 10B